MAYO CLINIC
Mayo Medical Laboratories

Test Definition: HMSRU

Heavy Metals Screen, Random, Urine

Reporting Title: Heavy Metals Scrn, Random, U
Performing Location: Rochester

Specimen Requirements:

Collection Container/Tube: Clean, plastic urine collection container
Submission Container/Tube: Plastic, 6-mL tube (Supply T465) or a clean, plastic aliquot container with no metal cap or glued insert
Specimen Volume: 2 mL
Collection Instructions:
1. Collect a random urine specimen.
2. See Metals Analysis-Collection and Transport in Special Instructions for complete instructions.
Additional Information:
1. Patient should not eat seafood for a 48-hour period prior to start of collection.
2. High concentrations of gadolinium and iodine are known to interfere with most metals tests. If either gadolinium- or iodine-containing contrast media has been administered, a specimen should not be collected for 96 hours.

Specimen Type	Temperature	Time
Urine	Refrigerated (preferred)	7 days
	Frozen	7 days

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
89889	Arsenic, Random, U **Also used by tests: ASRU**	Numeric	mcg/L	5586-3
60246	Lead, Random, U **Also used by tests: PBRU**	Numeric	mcg/L	5676-2
60156	Cadmium, Random, U **Also used by tests: CDRU**	Numeric	mcg/L	5611-9
60248	Mercury, Random, U **Also used by tests: HGRU**	Numeric	mcg/L	5689-5

Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
ASRU	Arsenic, Random, U	1	82175	Yes	Yes
PBRU	Lead, Random, U	1	83655	Yes	Yes
CDRU	Cadmium, Random, U	1	82300	Yes	Yes
HGRU	Mercury, Random, U	1	83825	Yes	Yes

Reference Values:

ARSENIC
0-35 mcg/L
Reference values apply to all ages.

LEAD
0-4 mcg/L
Reference values apply to all ages.

CADMIUM
0-15 years: not established
> or =16 years: 0.0-1.3 mcg/L

MERCURY
0-15 years: not established
> or =16 years: 0-9 mcg/L
Toxic concentration: >50 mcg/L
The concentration at which toxicity is expressed is widely variable between patients. 50 mcg/L is the lowest concentration at which toxicity is usually apparent.